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3 August 1982*cont*
4 AUG 1982

MEMORANDUM FOR: Director, Intelligence Community Staff
VIA: Chief, Administrative Staff
FROM: Director, Office of Community Coordination
SUBJECT: FY 1984 Contract Funds
REFERENCE: ICS 82-5419, 21 June 1982

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[redacted]
1. Reference reported your decision to allocate to OCC [redacted] requested [redacted] (excluding items to be transferred from the CIAP) of projected FY 84 contract funds. I propose to use those funds as follows:

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[redacted]
2. A description of the major item is provided for your information (Attachment). Although it will consume the bulk of our available funds, I think you will agree that the problem being addressed is one of very serious potential and, therefore, deserving of support. The advent of the automated office and of so-called electronic mail creates a new range of latent risks to the security of classified material. I believe the DCI must be seen as being in the forefront of efforts to minimize such risks.

3. The impact of this allocation, however, will preclude funding three important efforts. I would like, therefore, to strongly urge that you grant us relief from your \$1M ceiling to the extent of [redacted] to be allocated as follows:

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4. ADP Networking. Under the auspices of the IHC, a memorandum of understanding has been executed between DIA and the COINS Project Management Office providing for the joint development of the COINS and DODIIS networks utilizing compatible protocols and techniques. Long-range plans are being developed and implemented which will, for the first time, provide a major degree of interoperability between the major data communications networks of the Intelligence Community. Accomplishment of these objectives will make it possible for analysts throughout the Community to be provided access to most of the computer supported information systems throughout the Community from a single terminal.

There now appears to be but one serious technological barrier to the provision of such access. Because of the inevitable proliferation of terminal types throughout the Community, a sophisticated protocol is required which can be utilized by the Community networks to provide full capabilities to terminal users across networks and between various computer systems. The funds requested will be used to define and implement in software, to the extent possible, detailed specifications for a terminal handling protocol specifically designed to accommodate the principal terminal types in use in the Intelligence Community. A follow-on effort may be necessary to complete the project. This effort should be undertaken at the Community level because it spans the requirements of multiple networks across programmatic boundaries.

5. Security Awareness. Security education is needed in such developing fields as word processing and computer utilization. In addition, greater security awareness needs to be encouraged in industrial contractors and senior officials of the Government. Many of the latter, although not affiliated with the Intelligence Community, require frequent access to classified intelligence. In order to brief these individuals effectively, it is necessary to produce up-to-date, state-of-the art media presentations which present security and the protection of sources and methods in an understandable, motivational manner.

Although many 16mm movie and 35mm slide presentations on security subjects exist, they are for the most part outdated. Audience receptivity is crucial in security education. The use of audiovisual material perceived to be out of date can negate the message we wish to convey. We need to adopt the tools and techniques of the marketing expert to sell security to a broad and varied audience. Recall, for example, the DCI's current interest in materials to enhance security awareness among senior officials, and the problem Bob's having with updating outmoded presentations on short notice to meet DCI requirements.

The per unit cost of security awareness video cassettes is extremely low, in that one presentation can suffice for a large and varied audience. However, because of monetary limitations, a number of security areas that should be covered have not been. The Community needs presentations on communications security, TEMPEST problems, security of computers and the like. This budget request will be utilized to contract for some of these items.

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To the extent possible, the security awareness tapes will be made within Intelligence Community agency facilities. In order to insure a high level of quality, however, some of the tapes should be produced professionally under contract. The amount requested will enable us to make a number of the most-needed tapes and to encourage the Community to create or update others.

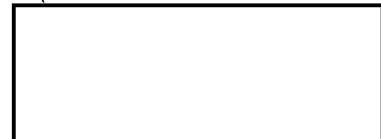
6. Data Standards. The Intelligence Community is now moving rapidly to provide network connections among the various computer based information systems being maintained throughout the Community. Beginning in 1984 there will be a very large increase in the number of analysts having direct on-line access to multiple data bases across component boundaries. The actual utility of this access will be greatly degraded because of the almost complete absence of agreed data standards in the Intelligence Community. Arbitrary differences in the definition of data, use of codes or simple variations in terminology will tend to defeat or frustrate analysts in their attempts to utilize the expanded information resources made available to them.

The IHC is charged with the responsibility of developing and promulgating on behalf of the DCI Community-wide standards for information processing. The provision of a relatively small amount of external contracting support in this area will greatly expedite and expand the effectiveness of the IHC in attempting to discharge its mandate. The development and adoption of Community-wide standards will greatly increase the utility of Community information systems. If these funds are made available, the IHC will identify a set of standards which has the highest priority from the Community perspective. The IHC's Data Standards Panel will then be provided with expert contractual assistance to, not only develop a detailed standard in the selected area, but to design and implement the administrative mechanism required to coordinate draft standards, publish and maintain standards once adopted, and to develop additional standards. It is anticipated that, given the size and complexity of the Intelligence Community, this can only be effectively done through automated procedures. Central files of established standards which can be kept current will have to be established and made widely available. Procedures for proposing, considering, adopting and promulgating changes and additions will have to be developed and adopted, and automated support systems designed and implemented.

Once a pattern has been established and procedures agreed upon and implemented, the set of standards can then be expanded at a rate governed by the availability of personnel and funding.

7. As you can see we have focused proposed contract efforts where the priorities exist and where we as a staff are knowingly short of in-house people to do the work. I believe we both adopted the OCC organization knowing that IHC would have to rely heavily on contract assistance. We are also both very much aware of the stress the DCI places on improved security--he has responded favorably to virtually every initiative SECOM has taken and has personally promoted their work whenever he got the chance.

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Attachment

Technical Security Countermeasures funds would be expended as follows:

A. Purchase for the ITC of a Computer Based Private Branch Exchange [redacted] This system will include all necessary hardware and software, electronic telephones and a factory maintenance contract. It will provide the means of instructing Community students in vulnerabilities of the system and provide for "hands-on" experience in conducting TSCM inspections. Failure to acquire this equipment will make it impossible to train inspectors adequately in a system which will be widely deployed in the Intelligence Community during the 1980's.

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B. Procure for the ITC a mid-sized, 32-bit minicomputer system with interactive-graphics terminals, specialized peripherals, and extensive operating system and applications software-[redacted] This computer is an essential adjunct to the CBX, required for full exploitation of the system and for optimum effectiveness as a teaching tool. CBX's are driven by computer which activate and control all lines and associated instruments. A primary security concern is the threat of manipulation of the CBX by an external computer, which could open lines on desk telephones without the knowledge of the user. The computer will provide the capability to generate and modify CBX programs and demonstrate to students characteristic symptoms of penetration.

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The computer will be used to train students in the detailed analysis of threat signals encountered in the field, using computer equipment available on the scene. Analysis of suspect signals is becoming too complex to conduct without a computer.

Direct support of the Computer Technology Course, given semi-annually by the ITC and perennially oversubscribed, will be provided by the requested computer. In addition, it will be used to provide technical demonstrations of office automation and word processing systems, as well as "hands on" instruction in TSCM inspections of ADP systems.



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Finally, the computer will provide invaluable instructional support to the ITC staff, which is adequate, but lean. It will create an indispensable capability to teach on a practical level, instead of a theoretical plane. Acquisition of the computer is essential to training TSCM specialists to operate effectively in an environment which is increasingly computer-dominated.

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